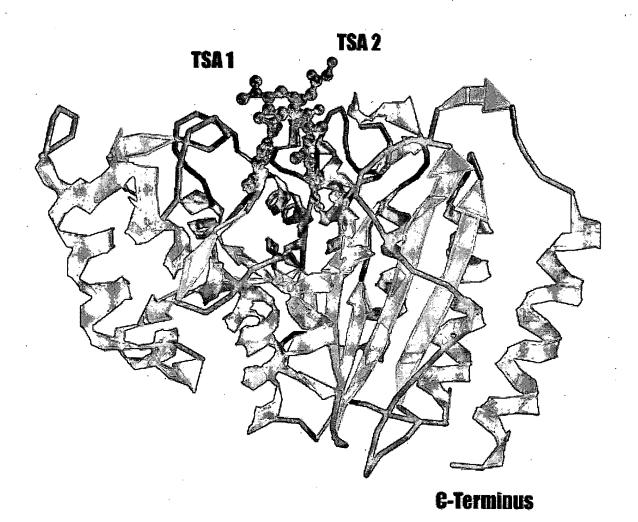
FIGURE 1



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FIGURE 2A

Examples of R₁ and R₂ Substituents

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FIGURE 2A (cont.)

Examples of R_3 and R_4 Substituents

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FIGURE 2A (cont.)

Examples of R₅ Substituents

FIGURE 2B

FIGURE 2C

FIGURE 2C (cont.)

72 N R	72 0 75-	The S	R. N. J.
\$ // 35-	N Start Star	N SE	N John St. S.
N / St	ZZ S	N-N /5 ⁵ -	N-N - gr
R N-N	0-N /35-	S-N Jose	R N-N 32 N
S-N S-	R N / 25	7/2 / 7/5	72 5
N-O Joseph	N-S	R N N	The N
		N-S / AS	
Zer N Zer	N-N pr	0-N	N-N N-N
S S			

FIGURE 2C (cont.)

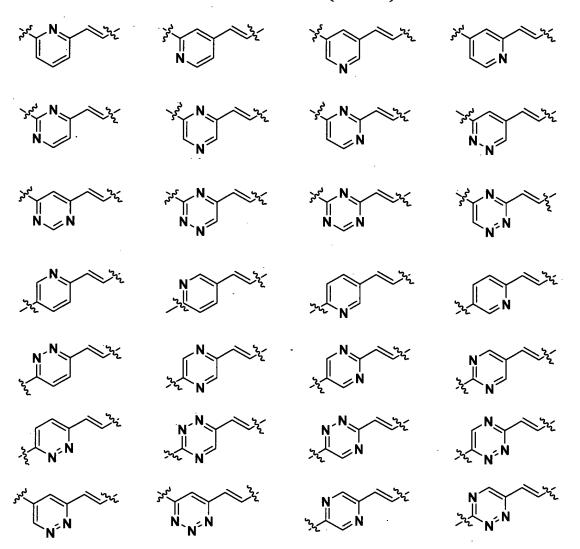


FIGURE 2D

FIGURE 2D (cont.)

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FIGURE 2D (cont.)

FIGURE 3

Amino acid sequence for full length human wild type HDAC8 [SEQ. ID No. 1]

MEEPEEPADSGQSLVPVYIYSPEYVSMCDSLAKIPKRASMVHSLIEAYALHKQMRIVKPK	60
VASMEEMATFHTDAYLQHLQKVSQEGDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATI	120
TAAQCLIDGMCKVAINWSGGWHHAKKDEASGFCYLNDAVLGILRLRRKFERILYVDLDLH	180
HGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGWYYSVNVPIQDGIQDEKY	240
YQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTPVGIGKCLKYILQWQLATLI	300
LGGGGYNLANTARCWTYLTGVILGKTLSSEIPDHEFFTAYGPDYVLEITPSCRPDRNEPH	360
RIQQILNYIKGNLKHVV	377

Human cDNA sequence HDAC8 [SEQ. ID No. 2]

ATGGAGGAGCCGGAGCACCCGGCCGGCCACTCGCTCCCCGGTTTATATCTAT	60
$\tt AGTCCCGAGTATGTCAGTATGTGACTCCCTGGCCAAGATCCCCAAACGGGCCAGTATG$	120
${\tt GTGCATTCTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAA}$	180
$\tt GTGGCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAG$	240
${\tt AAGGTCAGCCAAGAGGGCGATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTAT}$	300
${\tt GACTGCCCAGCCACTGAAGGGATATTTGACTATGCAGCAGCTATAGGAGGGGCTACGATC}$	360
${\tt ACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAACTGGTCTGGAGGG}$	420
${\tt TGGCATCATGCAAAGAAGAAGATGAAGCATCTGGTTTTTGTTATCTCAATGATGCTGTCCTG}$	480
${\tt GGAATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCAC}$	540.
${\tt CATGGAGATGGTGTAGAAGACGCATTCAGTTTCACCTCCAAAGTCATGACCGTGTCCCTG}$	600
${\tt CACAAATTCTCCCAGGATTTTTCCCAGGAACAGGTGACGTGTCTGATGTTGGCCTAGGG}$	660
${\tt AAGGGATGGTACTACAGTGTAAATGTGCCCATTCAGGATGGCATACAAGATGAAAAATAT}$	720
${\tt TACCAGATCTGTGAAAGCGTACTAAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTG}$	780
$\tt GTCTTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAACATGACT$	840
\cdot CCAGTGGGAATTGGCAAGTGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATT	900
$\tt TTGGGAGGAGGCTATAACCTTGCCAACACGGCTCGATGCTGGACATACTTGACCGGG$	960
$\tt GTCATCCTAGGGAAAACACTATCCTCTGAGATCCCAGATCATGAGTTTTTCACAGCATAT$	1020
${\tt GGTCCTGATTATGTGCTGGAAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCAC}$	1080
CGAATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAG	1134

FIGURE 4

Amino acid sequence for residues 1-377 of HDAC8 with a cleavable N-terminal 6x-histidine tag [SEQ. ID No. 3]

(6x-histidine tag underlined)

<u>MHHHHHHP</u> MEEPEEPADSGQSLVPVYIYSPEYVSMCDSLAKIPKRASMVHSLIEAYALHK	60
${\tt QMRIVKPKVASMEEMAAFHTDAYLQHLQKVSQEGDDDHPDSIEYGLGYDCPATEGIFDYA}$	120
AAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEASGFCYLNDAVLGILRLRRKFERI	180
$\verb LYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYYSVNVPIQ $	240
DGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTPVGIGKCLKYIL	300
${\tt QWQLATLILGGGGYNLANTARCWTYLTGVILGKTLSSEIPDHEFFTAYGPDYVLEITPSC}$	360
RPDRNEPHRIQQILNYIKGNLKHVV	385

FIGURE 5